

ABSTRACT OF THE DISCLOSURE

Circuits, apparatuses, electrochemical device charging methods, and lithium-mixed metal electrode cell charging methods are provided. According to one aspect, a circuit includes charging circuitry adapted to apply electrical energy to an electrochemical device to charge the electrochemical device, and the electrochemical device being configured to assume an open-circuit condition in a substantially charged state; shunting circuitry electrically coupled with the charging circuitry and configured to shunt the electrical energy around the electrochemical device responsive to the electrochemical device reaching the substantially charged state; and indication circuitry configured to output a signal responsive to the shunting of the electrical energy to indicate a charge status of the electrochemical device.

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